

# Signature Page

**Signed By**

ROBERT F BENHAM

**Organization**

OG AND E

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S20230330151457-F1211-R2022

## 2022 Emissions Inventory Report

OG AND E (330)

SOONER GENERATING STATION (1211)

### Emissions Summary

#### CRITERIA AIR POLLUTANT (CAP) EMISSIONS TOTALS

Pollutant Code/CAS #	Pollutant Name	Total Emissions (tons)*
CO	Carbon Monoxide	1,564.295
NOX	Nitrogen Oxides (NOx) expressed as NO2	1,859.226
PM10-PRI	PM10 - Primary (Filterable + Condensable)	88.34
PM25-PRI	PM2.5 - Primary (Filterable + Condensable)	50.673
SO2	Sulfur Oxides (SOx) expressed as SO2	494.052
VOC	Volatile Organic Compounds (VOCs)	52.001

#### HAZARDOUS AIR POLLUTANT (HAP) and/or OTHER POLLUTANT EMISSIONS TOTALS

Pollutant Code/CAS #	Pollutant Name	Is VOC/PM?	Total Emissions (tons)*
7439921	Lead (CAP-HAP)	PM	0.012
121142	2,4-Dinitrotoluene (HAP)	VOC	0.041
75070	Acetaldehyde (HAP-TOX)	VOC	0.045
98862	Acetophenone (HAP)	VOC	0.03
107028	Acrolein (HAP)	VOC	0.053
107131	Acrylonitrile (HAP-TOX)	VOC	0.167
7440360	Antimony (HAP)	PM	0.004
7440382	Arsenic (HAP-TOX)	PM	0.006
71432	Benzene (including benzene from gasoline) (HAP-TOX)	VOC	0.03
92875	Benzidine (HAP)	VOC	0.042
100447	Benzyl chloride (HAP)	VOC	0.029
7440417	Beryllium (HAP-TOX)	PM	0.001
92524	Biphenyl (HAP)	VOC	0.002
117817	Bis(2-ethylhexyl)phthalate (DEHP) (HAP)	VOC	0.043
7440439	Cadmium (HAP-TOX)	PM	0.002
75150	Carbon disulfide (HAP)	VOC	0.026
56235	Carbon tetrachloride (HAP-TOX)	VOC	0.002
108907	Chlorobenzene (HAP)	VOC	0.002

Pollutant Code/CAS #	Pollutant Name	Is VOC/PM?	Total Emissions (tons)*
67663	Chloroform (HAP-TOX)	VOC	0.002
7440473	Chromium (HAP-TOX)	PM	0.023
7440484	Cobalt (HAP)	PM	0.006
98828	Cumene (HAP)	VOC	0.002
132649	Dibenzofuran (HAP)	VOC	0.042
84742	Dibutylphthalate (HAP)	VOC	0.011
131113	Dimethyl phthalate (HAP)	VOC	0.014
100414	Ethyl benzene (HAP-TOX)	VOC	0.002
106934	Ethylene dibromide (Dibromoethane) (HAP)	VOC	0.007
107062	Ethylene dichloride (1,2-Dichloroethane) (HAP-TOX)	VOC	0.005
50000	Formaldehyde (HAP-TOX)	VOC	0.101
110543	Hexane (HAP)	VOC	0.033
7647010	Hydrochloric acid (HAP)	PM	0.886
7664393	Hydrogen fluoride (Hydrofluoric acid) (HAP)	PM	3.475
7439965	Manganese (HAP-TOX)	PM	0.032
7439976	Mercury (HAP-TOX)	PM	0.012
71556	Methyl chloroform (1,1,1-Trichloroethane) (HAP)	-	0.004
74884	Methyl iodide (Iodomethane) (HAP)	VOC	0.007
108101	Methyl isobutyl ketone (Hexone) (HAP)	VOC	0.135
75092	Methylene chloride (Dichloromethane) (HAP-TOX)	-	0.287
91203	Naphthalene (HAP)	VOC	0.005
7440020	Nickel (HAP-TOX)	PM	0.026
95476	o-Xylene (HAP)	VOC	0.003
108952	Phenol (HAP)	VOC	0.029
123386	Propionaldehyde (HAP)	VOC	0.076
100425	Styrene (HAP)	VOC	0.002
127184	Tetrachloroethylene (Perchloroethylene) (HAP)	-	0.001
108883	Toluene (HAP-TOX)	VOC	0.024
79016	Trichloroethylene (HAP)	VOC	0.004
1330207	Xylenes (isomers and mixture) (HAP)	VOC	0.006

\*Rounded to 3 digits past the decimal point. Note that where rounding results in 0, <.001 is indicated.

**2022 Emissions Inventory Report**  
**OG AND E (330)**  
**SOONER GENERATING STATION (1211)**

**COMPANY**

<b>Company Identifier:</b>	330	<b>Company Name:</b>	OG AND E
<b>Mailing Address:</b>	PO BOX 321 MC610 OKLAHOMA CITY, OK 73102-0321		
<b>Contact Phone:</b>	(405) 553-3000		
<b>Contact FAX:</b>	(553) 553-3689		

**FACILITY**

<b>Facility Identifier:</b>	1211	<b>Facility Name:</b>	SOONER GENERATING STATION
<b>Status:</b>	OP - Operating		
<b>NAICS:</b>	221112 (Primary) - Fossil Fuel Electric Power Generation		
<b>Comments:</b>			

**FACILITY - ADDRESS**

<b>Location Address:</b>	10800 COUNTY RD 230 RED ROCK, OK 74651
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**FACILITY - LOCATION**

<b>Latitude (decimal degress):</b>	36.45183	<b>Longitude (decimal degress):</b>	-97.06352
<b>Collection Method:</b>	014 - GPS code measurements (pseudo range) differential (DGPS)		
<b>Geographic Reference Point:</b>	101 - Entrance Point of a Facility, System, or Station		
	<b>Data Collection Date:</b>	07/03/2008	
	<b>Geodetic Reference System:</b>	003 - World Geodetic System of 1984	

**FACILITY - ADDITIONAL INFORMATION**

Field Name	Field Value
Oil & Gas Facility Category	Not Applicable
Permit Number(s)	2019-0895-ARR4,2016-0552-TVR3 M-4,2010-338-C M-3,2010-338-C M-1 PSD,2003-274-C M-3
SIC Number	4911
TRI Identifier (ID)	74651SNRGNHWWY15

RELEASE POINTS					
ID	Type	Description	Status	Details	Location
9953	Vertical	Electric Power Generation Boiler - Unit NO 1	OP in 2007	Height: 500.0 FEET, Shape: Circular, Diameter: 20.0 FEET, Temperature: 264.0 F, Flow Rate: 1,917,770.0 ACFM Velocity: 106.1 FPS	Uses Facility Site Location
9954	Vertical	Electric Power Generation Boiler - Unit NO 2	OP in 2007	Height: 500.0 FEET, Shape: Circular, Diameter: 20.0 FEET, Temperature: 264.0 F, Flow Rate: 1,917,770.0 ACFM Velocity: 106.1 FPS	Uses Facility Site Location
9955	Fugitive Area: SW Corner Coords	Coal Screening and Handling	OP in 2002	Fugitive Height: 20.0 FEET, Fugitive Width: 195.0 FEET, Fugitive Length: 195.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
21424	Vertical	Auxiliary Boiler Stack (EUG 3)	OP in 2002	Height: 109.0 FEET, Shape: Circular, Diameter: 2.0 FEET, Temperature: 1,746.0 F, Flow Rate: 430.0 ACFM Velocity: 2.281 FPS	Uses Facility Site Location
41838	Fugitive Area: SW Corner Coords	Coal Pile (EUG 6)	OP in 2007	Fugitive Height: 48.0 FEET, Fugitive Width: 1,474.0 FEET, Fugitive Length: 1,474.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
47153	Vertical	NO 2 Emergency Generator (EUG 8-B-03)	OP in 2007	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM Velocity:	Uses Facility Site Location
47237	Vertical	Emergency Diesel Fire Pump (EUG 8-B-01)	OP in 2007	Height: 9.0 FEET, Shape: Circular, Diameter: 0.66 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM Velocity:	Uses Facility Site Location
50627	Vertical	Generac Model QT025A (EUG 9)	OP in 2011	Height: 3.0 FEET, Shape: Circular, Diameter: 0.12 FEET, Temperature: 975.0 F, Flow Rate: 220.0 ACFM Velocity: 324.204 FPS	Uses Facility Site Location
138500	Vertical	Activated Carbon Silo (EUG 10)	OP in 2016	Height: 50.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 75.0 F, Flow Rate: , Velocity: 21.0 FPS	Uses Facility Site Location
138518	Fugitive Area: SW Corner Coords	Activated Carbon Handling Road (EUG 12)	OP in 2016	Fugitive Height: 1.0 FEET, Fugitive Width: 932.0 FEET, Fugitive Length: 932.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
205153	Vertical	New Emergency Generator 1 - Caterpillar C15 (EUG 8A)	OP in 2021	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM Velocity: 1.27324 FPM	Uses Facility Site Location
206777	Vertical	Lime Handling Equipment (EUG 11)	OP	Height: 50.0 FEET, Shape: Circular, Diameter: 1.7 FEET, Temperature: 200.0 F, Flow Rate: 3,000.0 ACFM Velocity: 1,321.70195 FPM	Uses Facility Site Location
206778	Fugitive Area: SW Corner Coords	Lime Handling Road Travel (EUG 12A)	OP	Fugitive Height: 1.0 FEET, Fugitive Width: 932.0 FEET, Fugitive Length: 932.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location

CONTROL DEVICES				
ID	Description	Status	Control Measure	Controlled Pollutants
123874	Fabric Filter / Baghouse Primary 100 90	OP	127 - Fabric Filter / Baghouse	PM10-PP1-PM10 - Primary (Filterable + Condensable): 90.0%
123875	Fabric Filter / Baghouse Primary 100 99	OP	127 - Fabric Filter / Baghouse	PM10-PP1-PM10 - Primary (Filterable + Condensable): 99.0%, PM25-PP1-PM2.5 - Primary (Filterable + Condensable): 99.0%
123876	Electrostatic Precipitator - Dry (DESP) Primary 100 99.5	OP	128 - Electrostatic Precipitator - Dry (DESP)	PM10-PP1-PM10 - Primary (Filterable + Condensable): 99.5%, PM25-PP1-PM2.5 - Primary (Filterable + Condensable): 99.5%
123877	Activated Carbon Injection (ACI) Primary 100 90	OP	207 - Activated Carbon Injection (ACI)	7439976-Mercury: 90.0%
123878	Flue Gas Desulfurization (FGD) Primary 100 95	OP	215 - Flue Gas Desulfurization (FGD)	SO2-Sulfur Oxides (SOx) expressed as SO2: 95.0%
123879	Dust Suppression Primary 100 75	OP	217 - Dust Suppression	PM10-PP1-PM10 - Primary (Filterable + Condensable): 75.0%, PM25-PP1-PM2.5 - Primary (Filterable + Condensable): 75.0%
123880	Dust Suppression Primary 100 85	OP	217 - Dust Suppression	PM25-PP1-PM2.5 - Primary (Filterable + Condensable): 85.0%

EMISSION UNITS				
ID	Type	Description	Status	Details
9953	100 - Boiler	Electric Power Generation Boiler Combustion Engineering - Unit NO 1	OP in 2002	Operation Start: , Design Capacity: 5,116.0 E6BTU/HR
9954	100 - Boiler	Electric Power Generation Boiler Combustion Engineering - Unit NO 2	OP in 2002	Operation Start: , Design Capacity: 5,116.0 E6BTU/HR
9955	760 - Conveyor	Coal Crushing, Screening and Handling	OP in 2002	Operation Start: , Design Capacity:
21130	100 - Boiler	Auxiliary Boiler (EUG 3)	OP in 2003	Operation Start: , Design Capacity: 33.0 E6BTU/HR
42026	785 - Open Storage Pile	Coal Pile (EUG 6)	OP in 2007	Operation Start: , Design Capacity:
47367	160 - Reciprocating IC Engine	NO 2 Emergency Generator GM-Detroit Serial NO 73100 (EUG 8-B-03)	OP in 2007	Operation Start: , Design Capacity: 750.0 HP
47471	160 - Reciprocating IC Engine	Emergency Diesel Fire Pump Cummins VT1710F Serial 44932 (EUG 8-B-01)	OP in 2007	Operation Start: , Design Capacity: 700.0 HP
50942	160 - Reciprocating IC Engine	Generac Model QT025A (EUG 9)	OP in 2007	Operation Start: , Design Capacity: 43.29 HP
138766	780 - Silo	Activated Carbon Handling Equipment (EUG 10)	OP in 2016	Operation Start: , Design Capacity:
138775	390 - Other fugitive	Activated Carbon Handling Road Travel (EUG 12)	OP in 2016	Operation Start: , Design Capacity:
205940	160 - Reciprocating IC Engine	New Emergency Generator 1 - Caterpillar C15 (EUG 8A)	OP in 2021	Operation Start: , Design Capacity: 762.0 HP
207532	780 - Silo	Lime Handling Equipment (EUG 11)	OP	Operation Start: , Design Capacity:
207533	390 - Other fugitive	Lime Handling Road Travel (EUG 12A)	OP	Operation Start: , Design Capacity:

UNIT PROCESSES					
Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
<b>9953</b> Electric Power Generation Boiler Combustion Engineering - Unit NO 1	49748	10100226	Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	OP	<b>Control Approach</b> Controlled?: Yes Description: Electrostatic Precipitator - Dry (DESP) and other measures <u>Control Devices:</u> 123876-Electrostatic Precipitator - Dry (DESP) Primary 100 99.5, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123877-Activated Carbon Injection (ACI) Primary 100 90, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123878-Flue Gas Desulfurization (FGD) Primary 100 95, Seq: 3, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% <b>Release Point Apportionment:</b> 9953 - Electric Power Generation Boiler - Unit NO 1: 100.0%
<b>9953</b> Electric Power Generation Boiler Combustion Engineering - Unit NO 1	49749	10100501	Distillate Oil - Grades 1 and 2 - Boiler	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled. <b>Release Point Apportionment:</b> 9953 - Electric Power Generation Boiler - Unit NO 1: 100.0%
<b>9954</b> Electric Power Generation Boiler Combustion Engineering - Unit NO 2	49750	10100226	Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	OP	<b>Control Approach</b> Controlled?: Yes Description: Electrostatic Precipitator - Dry (DESP) and other measures <u>Control Devices:</u> 123876-Electrostatic Precipitator - Dry (DESP) Primary 100 99.5, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123877-Activated Carbon Injection (ACI) Primary 100 90, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123878-Flue Gas Desulfurization (FGD) Primary 100 95, Seq: 3, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% <b>Release Point Apportionment:</b> 9954 - Electric Power Generation Boiler - Unit NO 2: 100.0%
<b>9954</b> Electric Power Generation Boiler Combustion Engineering - Unit NO 2	49751	10100501	Distillate Oil - Grades 1 and 2 - Boiler	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled. <b>Release Point Apportionment:</b> 9954 - Electric Power Generation Boiler - Unit NO 2: 100.0%
<b>9955</b> Coal Crushing, Screening and Handling	49752	30510103	Bulk Materials Conveyors - Coal	OP	<b>Control Approach</b> Controlled?: Yes Description: Dust Suppression and other measures <u>Control Devices:</u> 123874-Fabric Filter / Baghouse Primary 100 90, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123880-Dust Suppression Primary 100 85, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% <b>Release Point Apportionment:</b> 9955 - Coal Screening and Handling: 100.0%



Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
<b>21130</b> Auxiliary Boiler (EUG 3)	<b>119495</b>	10200502	Distillate Oil - 10-100 Million BTU/hr **	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 21424 - Auxiliary Boiler Stack (EUG 3): 100.0%
<b>42026</b> Coal File (EUG 6)	<b>149891</b>	30510303	Bulk Materials Open Stockpiles - Coal	OP	<b>Control Approach</b> Controlled?: Yes Description: Dust Suppression <u>Control Devices:</u> 123879-Dust Suppression Primary 100 75, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0%  <b>Release Point Apportionment:</b> 41838 - Coal File (EUG 6): 100.0%
<b>47367</b> NO 2 Emergency Generator GM-Detroit Serial NO 73100 (EUG 8-B-03)	<b>156029</b>	20200401	Diesel - Large Bore Engine	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 47153 - NO 2 Emergency Generator (EUG 8-B-03): 100.0%
<b>47471</b> Emergency Diesel Fire Pump Cummins VT1710F Serial 44932 (EUG 8-B-01)	<b>156118</b>	20200401	Diesel - Large Bore Engine	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 47237 - Emergency Diesel Fire Pump (EUG 8-B-01): 100.0%
<b>50942</b> Generac Model QT025A (EUG 9)	<b>160549</b>	20201001	Liquified Petroleum Gas (LPG) - Propane: Reciprocating	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 50627 - Generac Model QT025A (EUG 9): 100.0%
<b>138766</b> Activated Carbon Handling Equipment (EUG 10)	<b>259565</b>	30510496	Bulk Materials Unloading Operation - Chemical: Specify in Comments	OP	<b>Control Approach</b> Controlled?: Yes Description: Fabric Filter / Baghouse <u>Control Devices:</u> 123875-Fabric Filter / Baghouse Primary 100 99, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0%  <b>Release Point Apportionment:</b> 138500 - Activated Carbon Silo (EUG 10): 100.0%
<b>138775</b> Activated Carbon Handling Road Travel (EUG 12)	<b>259604</b>	30510496	Bulk Materials Unloading Operation - Chemical: Specify in Comments	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 138518 - Activated Carbon Handling Road (EUG 12): 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
<b>205940</b> New Emergency Generator 1 - Caterpillar C15 (EUG 8A)	<b>334361</b>	20200401	New Emergency Generator 1 - Caterpillar C15	OP in 2021	<b>Control Approach</b> Controlled?: No Description: <b>Release Point Apportionment:</b> 205153 - New Emergency Generator 1 - Caterpillar C15 (EUG 8A): 100.0%
<b>207532</b> Lime Handling Equipment (EUG 11)	<b>336142</b>	30510496	Lime Handling Equipment (EUG 11)	OP	<b>Control Approach</b> Controlled?: Yes Description: Fabric Filter / Baghouse <u>Control Devices:</u> 123875-Fabric Filter / Baghouse Primary 100 99, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% <b>Release Point Apportionment:</b> 206777 - Lime Handling Equipment (EUG 11): 100.0%
<b>207533</b> Lime Handling Road Travel (EUG 12A)	<b>336143</b>	30510496	Lime Handling Road Travel (EUG 12A)	OP	<b>Control Approach</b> Controlled?: No Description: <b>Release Point Apportionment:</b> 206778 - Lime Handling Road Travel (EUG 12A): 100.0%

PROCESS EMISSIONS				
Emission Unit ID	Unit Process ID	Throughput	Operations	
9953 Electric Power Generation Boiler Combustion Engineering - Unit NO 1	49748 Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	Annual Throughput: 866,489.614 TONS (Coal) (Input)	Average Hours/Day: 20.3, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 4,004.2 Seasonal Operations: Dec-Feb: 22.5%, Mar-May: 15.6%, Jun-Aug: 46.9%, Sep-Nov: 15.0%	
		<b>Pollutant</b>	<b>Emiss. Factor (Lbs/UOM)</b>	<b>Estimated Emiss. (Tons)</b>
		CO - Carbon Monoxide		719.267
		7439921 - Lead		0.0063
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		NOX - Nitrogen Oxides (NOx) expressed as NO2		935.022
		PM10-FRI - PM10 - Primary (Filterable + Condensable)	0.003458	26.25
		<b>Stack Test Date:</b> 11/06/2018		
		<b>Emission Comment:</b> New emission factors from stack test post scrubber installation. Stack test results plus FPM apportionment based on AP-42 Table 1.1-6.		
		PM25-FRI - PM2.5 - Primary (Filterable + Condensable)	0.003406	25.855
		<b>Stack Test Date:</b> 11/06/2018		
		<b>Emission Comment:</b> New emission factors from stack test post scrubber installation. Stack test results plus FPM apportionment based on AP-42 Table 1.1-6.		
		SO2 - Sulfur Oxides (SOx) expressed as SO2		247.424
		VOC - Volatile Organic Compounds (VOCs)	0.06	25.99468842
		<b>Overall Control Efficiency:</b> 0.0%		
		<b>Emission Comment:</b> AP-42 - 1.1		
		121142 - 2,4-Dinitrotoluene		0.0205
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		75070 - Acetaldehyde		0.02275
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		98862 - Acetophenone		0.0152
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		107028 - Acrolein		0.02655
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		107131 - Acrylonitrile		0.0835
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		7440360 - Antimony		0.002125
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		7440382 - Arsenic		0.00319
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		71432 - Benzene (including benzene from gasoline)		0.0152
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		92875 - Benzidine		0.02125
		<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software		
		100447 - Benzyl chloride		0.0144

Pollutant	Emission Factor (lb/MBtu)	Emissions Calculated with EPRI TRI For Power Plants Software	Calculation Method	Estimated Emis. (Tons)
7440417 - Beryllium			10_0 - OK DEQ Approved Method (no EF)	0.00035
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
92524 - Biphenyl			10_0 - OK DEQ Approved Method (no EF)	0.00091
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
117817 - Bis(2-ethylhexyl)phthalate (DEHP)			10_0 - OK DEQ Approved Method (no EF)	0.02135
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440439 - Cadmium			10_0 - OK DEQ Approved Method (no EF)	0.000965
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
75150 - Carbon disulfide			10_0 - OK DEQ Approved Method (no EF)	0.0129
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
56235 - Carbon tetrachloride			10_0 - OK DEQ Approved Method (no EF)	0.001215
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
108907 - Chlorobenzene			10_0 - OK DEQ Approved Method (no EF)	0.001065
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
67663 - Chloroform			10_0 - OK DEQ Approved Method (no EF)	0.001215
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440473 - Chromium			10_0 - OK DEQ Approved Method (no EF)	0.0114
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440484 - Cobalt			10_0 - OK DEQ Approved Method (no EF)	0.00298
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
98828 - Cumene			10_0 - OK DEQ Approved Method (no EF)	0.000835
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
132649 - Dibenzofuran			10_0 - OK DEQ Approved Method (no EF)	0.02125
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
84742 - Dibutylphthalate			10_0 - OK DEQ Approved Method (no EF)	0.00555
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
131113 - Dimethyl phthalate			10_0 - OK DEQ Approved Method (no EF)	0.00685
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
100414 - Ethyl benzene			10_0 - OK DEQ Approved Method (no EF)	0.001065
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
106934 - Ethylene dibromide (Dibromoethane)			10_0 - OK DEQ Approved Method (no EF)	0.00372
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
107062 - Ethylene dichloride (1,2-Dichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.002505
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
50000 - Formaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.02405
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
110543 - Hexane			10_0 - OK DEQ Approved Method (no EF)	0.0167
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7647010 - Hydrochloric acid			10_0 - OK DEQ Approved Method (no EF)	0.445
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7664393 - Hydrogen fluoride (Hydrofluoric acid)			10_0 - OK DEQ Approved Method (no EF)	1.745
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7439965 - Manganese			10_0 - OK DEQ Approved Method (no EF)	0.01635
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7439976 - Mercury			1_0 - Continuous Emission Monitoring System (CEMS)	0.006

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
71556 - Methyl chloroform (1,1,1-Trichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.0019
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
74884 - Methyl iodide (Iodomethane)			10_0 - OK DEQ Approved Method (no EF)	0.003265
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108101 - Methyl isobutyl ketone (Hexone)			10_0 - OK DEQ Approved Method (no EF)	0.0675
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
75092 - Methylene chloride (Dichloromethane)			10_0 - OK DEQ Approved Method (no EF)	0.144
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
91203 - Naphthalene			10_0 - OK DEQ Approved Method (no EF)	0.002365
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7440020 - Nickel			10_0 - OK DEQ Approved Method (no EF)	0.0131
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
95476 - o-Xylene			10_0 - OK DEQ Approved Method (no EF)	0.00148
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108952 - Phenol			10_0 - OK DEQ Approved Method (no EF)	0.0144
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
123386 - Propionaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.03795
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
100425 - Styrene			10_0 - OK DEQ Approved Method (no EF)	0.000985
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7664939 - Sulfuric acid (including acid mist expressed as H2SO4)			10_0 - OK DEQ Approved Method (no EF)	0.0
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
127184 - Tetrachloroethylene (Perchloroethylene)			10_0 - OK DEQ Approved Method (no EF)	0.00041
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108883 - Toluene			10_0 - OK DEQ Approved Method (no EF)	0.01215
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
79016 - Trichloroethylene			10_0 - OK DEQ Approved Method (no EF)	0.001975
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
1330207 - Xylenes (isomers and mixture)			10_0 - OK DEQ Approved Method (no EF)	0.002885
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				

Emission Unit ID	Unit Process ID	Throughput	Operations	
9953 Electric Power Generation Boiler Combustion Engineering - Unit NO 1	49749 Distillate Oil - Grades 1 and 2 - Boiler	<b>Annual Throughput:</b> 882.26 1000 GALLONS (Diesel) (Input)	Average Hours/Day: 1.6, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 306.8 Seasonal Operations: Dec-Feb: 22.5%, Mar-May: 15.6%, Jun-Aug: 46.9%, Sep-Nov: 15.0%	
Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CO - Carbon Monoxide			1_0 - Continuous Emission Monitoring System (CEMS)	0.0
<b>Emission Comment:</b> Reported on CEMS for coal process				
FM10-FRI - FM 10 - Primary (Filterable + Condensible)	2.3	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	1.014599
<b>Overall Control Efficiency:</b> 0.0%				
<b>Emission Comment:</b> AP-42 - 1.3				
FM25-FRI - FM 2.5 - Primary (Filterable + Condensible)	1.55	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.6837515
<b>Overall Control Efficiency:</b> 0.0%				

Pollutant		Emission Factor (Lbs/UOM)	Emission Factor UOM	Calculation Method	Estimated Emiss. (Tons)
VOC - Volatile Organic Compounds (VOCs)		0.2	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.088226
Overall Control Efficiency: 0.0%					
Emission Comment: AP-42 - 1.3					
50000 - Formaldehyde		0.061	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.0269089299999999
Overall Control Efficiency: 0.0%					
Emission Comment: AP-42 - 1.3					
Emission Unit ID	Unit Process ID	Throughput		Operations	
9954 Electric Power Generation Boiler Combustion Engineering - Unit NO2	49750 Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	Annual Throughput: 858,888.8757 TONS (Coal) (Input)		Average Hours/Day: 20.3, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 4,020.7 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%	
Pollutant		Emission Factor (Lbs/UOM)	Emission Factor UOM	Calculation Method	Estimated Emiss. (Tons)
CO - Carbon Monoxide				1_0 - Continuous Emission Monitoring System (CEMS)	843.862
7439921 - Lead				10_0 - OK DEQ Approved Method (no EF)	0.0061
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software					
NOX - Nitrogen Oxides (NOx) expressed as NO2				1_0 - Continuous Emission Monitoring System (CEMS)	919.764
PM10-FRI - PM10 - Primary (Filterable + Condensable)		0.002713	EBBTU - MILLION BTUS	4_1 - Stack Test - US EPA Reference Method (post-Control EF)	20.41
Stack Test Date: 05/28/2021					
Emission Comment: New emission factors from stack test post scrubber installation. Stack test results plus FPM apportionment based on AP-42 Table 1.1-6.					
PM25-FRI - PM2.5 - Primary (Filterable + Condensable)		0.002037	EBBTU - MILLION BTUS	4_1 - Stack Test - US EPA Reference Method (post-Control EF)	15.329
Stack Test Date: 05/28/2021					
Emission Comment: New emission factors from stack test post scrubber installation. Stack test results plus FPM apportionment based on AP-42 Table 1.1-6.					
SO2 - Sulfur Oxides (SOx) expressed as SO2				1_0 - Continuous Emission Monitoring System (CEMS)	246.583
VOC - Volatile Organic Compounds (VOCs)		0.06	TON - TONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	25.766666271
Overall Control Efficiency: 0.0%					
Emission Comment: AP-42 - 1.1					
121142 - 2,4-Dinitrotoluene				10_0 - OK DEQ Approved Method (no EF)	0.0203
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software					
75070 - Acetaldehyde				10_0 - OK DEQ Approved Method (no EF)	0.02255
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software					
98862 - Acetophenone				10_0 - OK DEQ Approved Method (no EF)	0.01505
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software					
107028 - Acrolein				10_0 - OK DEQ Approved Method (no EF)	0.02635
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software					
107131 - Acrylonitrile				10_0 - OK DEQ Approved Method (no EF)	0.083
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software					
7440360 - Antimony				10_0 - OK DEQ Approved Method (no EF)	0.002095
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software					

Pollutant	Emiss. Factor (Lbs/UOM)	Emiss. Factor UOM	Calculation Method	Estimated Emiss. (Tons)
7440382 - Arsenic			10_0 - OK DEQ Approved Method (no EF)	0.00308
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
71432 - Benzene (including benzene from gasoline)			10_0 - OK DEQ Approved Method (no EF)	0.01505
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
92875 - Benztidine			10_0 - OK DEQ Approved Method (no EF)	0.02105
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
100447 - Benzyl chloride			10_0 - OK DEQ Approved Method (no EF)	0.0143
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440417 - Beryllium			10_0 - OK DEQ Approved Method (no EF)	0.0003395
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
92524 - Biphenyl			10_0 - OK DEQ Approved Method (no EF)	0.000905
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
117817 - Bis(2-ethylhexyl)phthalate (DEHP)			10_0 - OK DEQ Approved Method (no EF)	0.02115
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440439 - Cadmium			10_0 - OK DEQ Approved Method (no EF)	0.000945
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
75150 - Carbon disulfide			10_0 - OK DEQ Approved Method (no EF)	0.0128
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
56235 - Carbon tetrachloride			10_0 - OK DEQ Approved Method (no EF)	0.001205
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
108907 - Chlorobenzene			10_0 - OK DEQ Approved Method (no EF)	0.001055
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
67663 - Chloroform			10_0 - OK DEQ Approved Method (no EF)	0.001205
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440473 - Chromium			10_0 - OK DEQ Approved Method (no EF)	0.0111
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440484 - Cobalt			10_0 - OK DEQ Approved Method (no EF)	0.002905
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
98828 - Cumene			10_0 - OK DEQ Approved Method (no EF)	0.00083
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
132649 - Dibenzofuran			10_0 - OK DEQ Approved Method (no EF)	0.02105
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
84742 - Dibutylphthalate			10_0 - OK DEQ Approved Method (no EF)	0.0055
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
131113 - Dimethyl phthalate			10_0 - OK DEQ Approved Method (no EF)	0.00675
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
100414 - Ethyl benzene			10_0 - OK DEQ Approved Method (no EF)	0.001055
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
106934 - Ethylene dibromide (Dibromoethane)			10_0 - OK DEQ Approved Method (no EF)	0.003685
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
107062 - Ethylene dichloride (1,2-Dichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.002485
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
50000 - Formaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.0235
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
110543 - Hexane			10_0 - OK DEQ Approved Method (no EF)	0.01655
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
7647010 - Hydrochloric acid			10_0 - OK DEQ Approved Method (no EF)	0.4405
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7664393 - Hydrogen fluoride (Hydrofluoric acid)			10_0 - OK DEQ Approved Method (no EF)	1.73
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7439965 - Manganese			10_0 - OK DEQ Approved Method (no EF)	0.0158
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7439976 - Mercury			1_0 - Continuous Emission Monitoring System (CEMS)	0.006
71556 - Methyl chloroform (1,1,1-Trichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.00188
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
74884 - Methyl iodide (Iodomethane)			10_0 - OK DEQ Approved Method (no EF)	0.003235
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108101 - Methyl isobutyl ketone (Hexone)			10_0 - OK DEQ Approved Method (no EF)	0.067
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
75092 - Methylene chloride (Dichloromethane)			10_0 - OK DEQ Approved Method (no EF)	0.143
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
91203 - Naphthalene			10_0 - OK DEQ Approved Method (no EF)	0.00234
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7440020 - Nickel			10_0 - OK DEQ Approved Method (no EF)	0.01275
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
95476 - o-Xylene			10_0 - OK DEQ Approved Method (no EF)	0.001465
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108952 - Phenol			10_0 - OK DEQ Approved Method (no EF)	0.0143
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
123386 - Propionaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.0376
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
100425 - Styrene			10_0 - OK DEQ Approved Method (no EF)	0.00098
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7664939 - Sulfuric acid (including acid mist expressed as H2SO4)			10_0 - OK DEQ Approved Method (no EF)	0.0
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
127184 - Tetrachloroethylene (Perchloroethylene)			10_0 - OK DEQ Approved Method (no EF)	0.0004065
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108883 - Toluene			10_0 - OK DEQ Approved Method (no EF)	0.01205
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
79016 - Trichloroethylene			10_0 - OK DEQ Approved Method (no EF)	0.001955
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
1330207 - Xylenes (isomers and mixture)			10_0 - OK DEQ Approved Method (no EF)	0.00286
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				

Emission Unit ID	Unit Process ID	Throughput	Operations			
9954 Electric Power Generation Boiler Combustion Engineering - Unit NO2	49751 Distillate Oil - Grades 1 and 2 - Boiler	Annual Throughput: 861.74 1000 GALLONS (Diesel) (Input)	Average Hours/Day: 1.6, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 323.6 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)



Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CO - Carbon Monoxide			1_0 - Continuous Emission Monitoring System (CEMS)	0.0
<b>Emission Comment:</b> Reported on CEMS for coal process				
PM10-FR1 - PM10 - Primary (Filterable + Condensable)	2.3	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.991001
<b>Overall Control Efficiency:</b> 0.0%				
<b>Emission Comment:</b> AP-42 - 1.3				
PM25-FR1 - PM2.5 - Primary (Filterable + Condensable)	1.55	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.6678485
<b>Overall Control Efficiency:</b> 0.0%				
<b>Emission Comment:</b> AP-42 - 1.3				
VOC - Volatile Organic Compounds (VOCs)	0.2	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.086174
<b>Overall Control Efficiency:</b> 0.0%				
<b>Emission Comment:</b> AP-42 - 1.3				
50000 - Formaldehyde	0.061	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.02628307
<b>Overall Control Efficiency:</b> 0.0%				
<b>Emission Comment:</b> AP-42 - 1.3				
Emission Unit ID	Unit Process ID	Throughput		Operations
9955 Coal Crushing, Screening and Handling	49752 Bulk Materials Conveyors - Coal	<b>Annual Throughput:</b> 1,725,378.47 TONS (Coal) (Input)		Average Hours/Day: 20.3, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 4,020.7 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%
Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
PM10-FR1 - PM10 - Primary (Filterable + Condensable)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	10.84
PM25-FR1 - PM2.5 - Primary (Filterable + Condensable)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.18
Emission Unit ID	Unit Process ID	Throughput		Operations
21130 Auxiliary Boiler (EUG 3)	119495 Distillate Oil - 10-100 Million BTU/hr **	<b>Annual Throughput:</b> 424,819.0 GALLONS (Distillate Oil (Nb. 2)) (Input)		Average Hours/Day: 17.5, Days/Week: 5.0, Weeks/Year: 20.0 Actual Hours/Year: 1,750.0 Seasonal Operations: Dec-Feb: 57.1%, Mar-May: 32.0%, Jun-Aug: 0.0%, Sep-Nov: 10.9%
Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CO - Carbon Monoxide	5.0	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	1.062
<b>Overall Control Efficiency:</b> 0.0%				
<b>Emission Comment:</b> AP-42 - 1.3				
NOX - Nitrogen Oxides (NOx) expressed as NO2	20.0	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	4.248
<b>Overall Control Efficiency:</b> 0.0%				
<b>Emission Comment:</b> AP-42 - 1.3				
PM10-FR1 - PM10 - Primary (Filterable + Condensable)	2.3	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.489
<b>Overall Control Efficiency:</b> 0.0%				
<b>Emission Comment:</b> AP-42 - 1.3				
PM25-FR1 - PM2.5 - Primary (Filterable + Condensable)	1.55	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.329
<b>Overall Control Efficiency:</b> 0.0%				

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
SO2 - Sulfur Oxides (SOx) expressed as SO2	0.213	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.045
Overall Control Efficiency: 0.0%				
Emission Comment: AP-42 Section 1.3; Assuming S=0.0015 for 15ppm ULSD				
VOC - Volatile Organic Compounds (VOCs)	0.28	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.059
Overall Control Efficiency: 0.0%				
Emission Comment: AP-42 - 1.3				

Emission Unit ID	Unit Process ID	Throughput	Operations					
42026 Coal Pile (EUG 6)	149891 Bulk Materials Open Stockpiles - Coal	Annual Throughput: 78.78 ACRES (Coal) (Input)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%					
			Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)	
			PM10-FR1 - PM 10 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	22.80909209	
			PM25-FR1 - PM2.5 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	2.525062454	
Emission Unit ID	Unit Process ID	Throughput	Operations					
47367 NO 2 Emergency Generator GM- Detroit Serial NO 73100 (EUG 8-B-03)	156029 Diesel - Large Bore Engine	Annual Throughput: 411.63 GALLONS (Distillate Oil (Diesel)) (Input)	Average Hours/Day: 2.1, Days/Week: 0.1, Weeks/Year: 52.0 Actual Hours/Year: 10.8 Seasonal Operations: Dec-Feb: 27.2%, Mar-May: 24.4%, Jun-Aug: 27.6%, Sep-Nov: 20.8%					
			Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)	
			CO - Carbon Monoxide	116.45	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.024	
			Overall Control Efficiency: 0.0%					
			Emission Comment: AP-42 - 3.4					
			NOX - Nitrogen Oxides (NOx) expressed as NO2	438.4	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.09	
			Overall Control Efficiency: 0.0%					
			Emission Comment: AP-42 - 3.4					
			PM10-FR1 - PM 10 - Primary (Filterable + Condensible)	7.8501	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002	
			Overall Control Efficiency: 0.0%					
			Emission Comment: AP-42 - 3.4					
			SO2 - Sulfur Oxides (SOx) expressed as SO2	0.000012135	HP-HR - HORSEPOWER-HOURS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.0	
			Overall Control Efficiency: 0.0%					
			Emission Comment: AP-42 Section 3.4, using S=0.0015% or 15ppmsulfur for ULSD					
			VOC - Volatile Organic Compounds (VOCs)	12.33	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002	
			Overall Control Efficiency: 0.0%					
			Emission Comment: AP-42 - 3.4					
			Emission Unit ID	Unit Process ID	Throughput	Operations		
			47471 Emergency Diesel Fire Pump Cummins VT1710F Serial 44932 (EUG 8-B-01)	156118 Diesel - Large Bore Engine	Process was not operating, or was not required to report emissions, during the reporting period.			

Emission Unit ID	Unit Process ID	Throughput	Operations				
		Comment: Unit did not operate in 2022					
Emission Unit ID	Unit Process ID	Throughput	Operations				
50942 Generac Model QT025A (EUG 9)	160549 Liquified Petroleum Gas (LPG) - Propane: Reciprocating	Annual Throughput: 55.19 GALLONS (Liquified Petroleum Gas (LPG)) (Input)	Average Hours/Day: 1.3, Days/Week: 0.2, Weeks/Year: 52.0 Actual Hours/Year: 13.3 Seasonal Operations: Dec-Feb: 9.8%, Mar-May: 57.9%, Jun-Aug: 3.8%, Sep-Nov: 28.6%				
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)	
		CO - Carbon Monoxide	0.189994152	HP-HR - HORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)	0.054	
		Emission Comment: Manufacturer - QTA025A Factors					
		NOX - Nitrogen Oxides (NOx) expressed as NO2	0.009656236	HP-HR - HORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)	0.003	
		Emission Comment: Manufacturer - QTA025A Factors					
		VOC - Volatile Organic Compounds (VOCs)	0.003152607	HP-HR - HORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)	0.001	
		Emission Comment: Manufacturer - QTA025A Factors					
Emission Unit ID	Unit Process ID	Throughput	Operations				
138766 Activated Carbon Handling Equipment (EUG 10)	259565 Bulk Materials Unloading Operation - Chemical: Specify in Comments	Annual Throughput: 120.02 TONS (Material) (Input)	Average Hours/Day: 0.2, Days/Week: 1.8, Weeks/Year: 38.0 Actual Hours/Year: 14.0 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%				
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)	
		PM10-FR1 - PM 10 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.001	
		PM25-FR1 - PM 2.5 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.001	
Emission Unit ID	Unit Process ID	Throughput	Operations				
138775 Activated Carbon Handling Road Travel (EUG 12)	259604 Bulk Materials Unloading Operation - Chemical: Specify in Comments	Annual Throughput: 37.70454545 MLES (Material) (Input)	Average Hours/Day: 0.1, Days/Week: 0.7, Weeks/Year: 38.0 Actual Hours/Year: 2.5 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%				
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)	
		PM10-FR1 - PM 10 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.003	
		PM25-FR1 - PM 2.5 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0004	
Emission Unit ID	Unit Process ID	Throughput	Operations				
205940 New Emergency Generator 1 - Caterpillar C15 (EUG 8A)	334361 New Emergency Generator 1 - Caterpillar C15	Annual Throughput: 452.72 GALLONS (Distillate Oil (Diesel)) (Input)	Average Hours/Day: 2.3, Days/Week: 0.1, Weeks/Year: 52.0 Actual Hours/Year: 11.9 Seasonal Operations: Dec-Feb: 35.3%, Mar-May: 26.1%, Jun-Aug: 19.3%, Sep-Nov: 19.3%				
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)	
		CO - Carbon Monoxide	116.45	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.026	
		Overall Control Efficiency: 0.0%					
		Emission Comment: AP-42 - 3.4					
		NOX - Nitrogen Oxides (NOx) expressed as NO2	438.4	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.099	

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
<b>Overall Control Efficiency: 0.0%</b>				
<b>Emission Comment: AP-42 - 3.4</b>				
PM10-FR - PM10 - Primary (Filterable + Condensable)	7.8501	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002
<b>Overall Control Efficiency: 0.0%</b>				
<b>Emission Comment: AP-42 - 3.4</b>				
SO2 - Sulfur Oxides (SOx) expressed as SO2	0.000012135	HP-HR - HORSEPOWER-HOURS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.0
<b>Overall Control Efficiency: 0.0%</b>				
<b>Emission Comment: AP-42 Section 3.4, using S=0.0015% or 15ppm sulfur for ULSD</b>				
VOC - Volatile Organic Compounds (VOCs)	12.33	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.003
<b>Overall Control Efficiency: 0.0%</b>				
<b>Emission Comment: AP-42 - 3.4</b>				

Emission Unit ID	Unit Process ID	Throughput	Operations	
207532 Lime Handling Equipment (EUG 11)	336142 Lime Handling Equipment (EUG 11)	<b>Annual Throughput:</b> 21,202.67 TONS (Product) (Output)	Average Hours/Day: 10.7, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 2,122.0 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%	
		<b>Pollutant</b>	<b>Emis. Factor (Lbs/UOM)</b>	<b>Emis. Factor UOM</b>
		PM10-FR - PM10 - Primary (Filterable + Condensable)		
		<b>Emission Comment:</b> Emissions for all lime handling equipment in EUG 11. Emission factor of 0.01 gr/dscf with various acfm rates.		
		PM25-FR - PM2.5 - Primary (Filterable + Condensable)		
207533 Lime Handling Road Travel (EUG 12A)	336143 Lime Handling Road Travel (EUG 12A)	<b>Annual Throughput:</b> 12,153.04 MILES (Material) (Input)	Average Hours/Day: 3.1, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 607.7 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%	
		<b>Pollutant</b>	<b>Emis. Factor (Lbs/UOM)</b>	<b>Emis. Factor UOM</b>
		PM10-FR - PM10 - Primary (Filterable + Condensable)		
		<b>Emission Comment:</b> Emission based on emission factor of 0.03 lb/VMT and a total miles traveled per year.		
		PM25-FR - PM2.5 - Primary (Filterable + Condensable)		
		<b>Annual Throughput:</b> 12,153.04 MILES (Material) (Input)	Average Hours/Day: 3.1, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 607.7 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%	
		<b>Pollutant</b>	<b>Emis. Factor (Lbs/UOM)</b>	<b>Emis. Factor UOM</b>
		PM10-FR - PM10 - Primary (Filterable + Condensable)		
		<b>Emission Comment:</b> Emission based on emission factor of 0.03 lb/VMT and a total miles traveled per year.		
		PM25-FR - PM2.5 - Primary (Filterable + Condensable)		
		<b>Annual Throughput:</b> 12,153.04 MILES (Material) (Input)	Average Hours/Day: 3.1, Days/Week: 5.2, Weeks/Year: 38.0 Actual Hours/Year: 607.7 Seasonal Operations: Dec-Feb: 28.8%, Mar-May: 11.6%, Jun-Aug: 43.0%, Sep-Nov: 16.7%	
		<b>Pollutant</b>	<b>Emis. Factor (Lbs/UOM)</b>	<b>Emis. Factor UOM</b>
		PM10-FR - PM10 - Primary (Filterable + Condensable)		
		<b>Emission Comment:</b> Emission based on emission factor of 0.03 lb/VMT and a total miles traveled per year.		
		PM25-FR - PM2.5 - Primary (Filterable + Condensable)		